



03500.017990

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
YOSHIHIRO ISHIBE)
Application No.: 10/802,856)
Filed: March 18, 2004)
For: MULTI-BEAM OPTICAL SCANNING)
DEVICE)
U.S. Patent No.: 7,145,591)
Issued: December 5, 2006)
Examiner: H. Pham
Group Art Unit: 2861
March 26, 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF CORRECTION
UNDER RULES 322 AND 323

Certificate
MAR 30 2007
of Correction

Sir:

It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of Correction form, in duplicate, is enclosed.

In the equations at columns 19 to 22, the only correction is a change from the Latin letter "y" to the Greek letter "γ", found in the denominator of each equation.

Accompanying this letter is a check for \$100.00 to cover the statutory fee for such Certificate of Correction.

03/28/2007 TBESHAH1 00000024 7145591

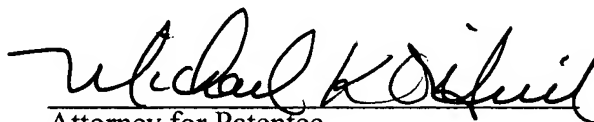
01 FC:1811

100.00 OP

APR 2 - 2007.

Patentee's undersigned attorney may be reached in our Costa Mesa,
California office by telephone at (714) 540-8700. All correspondence should continue to
be directed to our address given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Michael K. O'Neill", written over a horizontal line.

Attorney for Patentee
Michael K. O'Neill
Registration No.: 32,622

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,145,591
DATED : December 5, 2006
INVENTOR(S) : Yoshihiro Ishibe

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 3

Line 56, "polygon;" should read --polygon mirror;--; and
Line 60, "polygon;" should read --polygon mirror;--.

COLUMN 7

Line 22, "titled" should read --tilted--.

COLUMN 19

Expression 7 should read

$$-- \frac{r \tan \frac{\eta}{2} \frac{d(N-1)}{2f_{col}} \left(\cos \left(2 \arctan \frac{d(N-1)}{2f_{col}} \right) \right) + \cos \gamma \tan \mu}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \frac{Sk}{Sd} --;$$

Expression 8 should read

$$-- \delta all = |\delta Y1 - (\delta Y2 + \delta Y3)|$$

$$= \left| P(N-1) \sin \beta \tan \theta_{\max} - \frac{r \tan \frac{\eta}{2} \frac{d(N-1)}{2f_{col}} \left(\cos \left(2 \arctan \frac{d(N-1)}{2f_{col}} \right) \right) + \cos \gamma \tan \eta}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \frac{Sk}{Sd} + 9.5 \delta \lambda f \right| --;$$

and

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Expression 9 should read

$$\begin{aligned} \text{-- } \delta all &= |\delta Y1 - (\delta Y2 + \delta Y3)| \\ &= \left| P(N-1) \sin \beta \tan \theta_{\max} - \frac{\left(r \tan \frac{\eta}{2} \frac{d(N-1)}{2f_{col}} \left(\cos \left(2 \arctan \frac{d(N-1)}{2f_{col}} \right) + \cos \gamma \tan \eta \right) \frac{Sk}{Sd} + 9.5 \delta \lambda f \right)}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \right| \leq 0.014 \text{ --.} \end{aligned}$$

COLUMN 21

Expression 11 should read

$$\text{-- } \delta Y2 = \frac{r \tan \frac{n}{2} \tan \frac{\alpha}{2} (\cos \alpha + \cos \gamma \tan \eta)}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \frac{Sk}{Sd} \text{ --; and}$$

Expression 12 should read

$$\begin{aligned} \text{-- } \delta all &= |\delta Y1 - \delta Y2| \\ &= \left| P(N-1) \sin \beta \tan \theta_{\max} - \frac{r \tan \frac{\eta}{2} \tan \frac{\alpha}{2} (\cos \alpha + \cos \gamma \tan \eta)}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \frac{Sk}{Sd} \right| \text{ --} \end{aligned}$$

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-- $\delta all = |\delta Y1 - \delta Y2|$

$$= \left| P(N-1) \sin \beta \tan \theta_{\max} - \frac{r \tan \frac{\eta}{2} \tan \frac{\alpha}{2} (\cos \alpha + \cos \gamma \tan \eta)}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \frac{Sk}{Sd} \right| \leq 0.014 \text{ --.}$$

COLUMN 23

Line 38, "by-this" should read --by this--.

COLUMN 24

Line 21, "polygon motor" should read --polygon mirror--.

COLUMN 26

Line 2, "beans" should read --beams--;

Line 10, "minor" should read --mirror--; and

Line 23, "convened" should read --converted--.

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$$\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)$$

Expression 8 should read

$$\text{-- } \delta_{all} = |\delta Y1 - (\delta Y2 + \delta Y3)|$$

$$= \left| P(N-1) \sin \beta \tan \theta_{\max} - \frac{r \tan \frac{\eta}{2} \frac{d(N-1)}{2f_{col}} \left(\cos \left(2 \arctan \frac{d(N-1)}{2f_{col}} \right) \right) + \cos \gamma \tan \eta \frac{Sk}{Sd} + 9.5 \delta \lambda f}{\sin \left(\frac{\gamma}{2} + \frac{\eta}{2} \right)} \right| \text{ --};$$

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